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GD Stormo - Bioinformatics, 2000 - genetics.wustl.edu

... and we had many examples of each in our **database**. ... an entire alignment of the sites by **adding** in new ... discov- ery in biological sequences: The **TEIRESIAS** algorithm ...Cited by 269 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)[Validation and verification of knowledge-based systems: A survey](#)

UG Gupta - Applied Intelligence, 1993 - Springer

... **TEIRESIAS** is capable of identifying errors in a rule-based knowledge base and takes reme- dial action by modifying, **adding**, or deleting rules. ...Cited by 10 - [Related Articles](#) - [Web Search](#)[\[PS\] KBS Maintenance Validation Using Simulation - group of 2 »](#)

F Coenen, TJM Bench-Capon - APPL ARTIF INTELL ENG., COMPUTATIONAL MECHANICS PUBL, ..., 1992 - csc.liv.ac.uk

... tems that have been developed such as **TEIRESIAS** (Davis ... and instantiate it to personA and create a new ... In Karagiannis, D. (ed). **Database** and Expert Sys- tems ...Cited by 2 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)[Integration issue in knowledge acquisition systems](#)

K Morik - ACM SIGART Bulletin, 1989 - portal.acm.org

... 87), or a **database** system is linked to the knowledge ... **Adding** these new demands to the common tasks of ... particular expert system shell such as **TEIRESIAS** (Davis 82 ...Cited by 3 - [Related Articles](#) - [Web Search](#)[Knowledge-based assistant for colonoscopy - group of 2 »](#)

LE Sucar, DF Gillies - Proceedings of the third international conference on ..., 1990 - portal.acm.org

... at the first level (eg **TEIRESIAS** [Hayes-Roth ... Managing uncertainty: we will eventually **add** uncertainties to ... c) The historical **database** of facts and conclusions ...Cited by 1 - [Related Articles](#) - [Web Search](#)[Merging thesauri: principles and evaluation - group of 7 »](#)

H Mili, R Rada - Pattern Analysis and Machine Intelligence, IEEE Transactions ..., 1988 - ieeexplore.ieee.org

... the orig- inal query) and then to refine the request by **adding** con- ditions ... or a query, and then this network is matched against the network **database** to locate ...Cited by 14 - [Related Articles](#) - [Web Search](#)[Systematic and fully automated identification of protein sequence patterns](#)

RK Hart, AK Royyuru, G Stolovitzky, A Califano - J Comput Biol, 2000 - liebertonline.com

... EMOTIF (Nevill-Manning et al., 1998), **Teiresias** (Rigoutsos et ... would have occurred in a random **database** of similar ... within the pattern or (2) **adding** solid tokens ...Cited by 11 - [Related Articles](#) - [Web Search](#)[On Interface Requirements for Expert Systems - group of 3 »](#)

RL Wexelblat - AI Magazine, 1989 - aistudy.co.kr

... wrote, "CATS believes it solved"), to create the image ... **Teiresias** is an explanation pro- gram associated with ... system must now update its **database** and revise ...

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MHEG and MHP-development, deployment and profit

DJ Cutts - Interactive Television (Ref. No. 1999/200), IEE Colloquium ..., 1999 -
ieeexplore.ieee.org

... a cross-industry body aiming to create an interoperable ... especially designed for n/
use, called **Ti**resias. ... a new facility called 'broadcast **database** toolkit' may ...

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Statistical Significance of Patterns in Biosequences - group of 2 »

G Stolovitzky, A Califano - IBM RC, 1998 - research.ibm.com

... years a number of very interesting pattern discovery tools have emerged (**Teiresias**,
Pratt, Meme ... if it cannot be extended to a $j(k+1)l$ -pattern by **adding** an extra ...

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J Besemer, M Borodovsky - Nucleic Acids Research - nar.oupjournals.org

... three E.coli classes using **second order Markov** models trained ... E.coli-specific codon

usage **pattern** was the ... rather small amount of genomic **sequence**, we attempted ...

Cited by 83 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[... of gene starts in microbial genomes. Implications for finding **sequence motifs** in regulatory regions - group of 6 »](#)

J Besemer, A Lomsadze, M Borodovsky - Nucleic Acids Research, 2001 - nar.oupjournals.org

... includes a three-periodic **second order Markov** model of ... frequency of a given **amino**

acid in the ... new opportunities for studying **sequence patterns** in regions ...

Cited by 94 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Estimation and Modelling Repeated **Patterns** in High Order Markov Chains with the Mixture Transition ... - group of 2 »](#)

A Raftery, S Tavaré - Applied Statistics, 1994 - JSTOR

... BIC values than the full **second-order Markov** chain model ... Statistical analysis of deoxyribonucleic acid **sequence** data-a ... and Blaisdell, BE (1988) **Patterns** in DNA ...

Cited by 30 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Fast probabilistic analysis of **sequence** function using scoring matrices - group of 12 »](#)

TD Wu, CG Nevill-Manning, DL Brutlag - Bioinformatics, 2000 - bioinformatics.oupjournals.org

... also because of the growing size of **pattern** databases that ... of residues in a large **sequence** database. ... For example, in a **second-order Markov** model, the context C ...

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[SLAM: Cross-Species Gene Finding and Alignment with a Generalized Pair Hidden Markov Model - group of 10 »](#)

M Alexandersson, S Cawley, L Pachter - 2003 - genome.org

... of more complex conservation **patterns** when these ... as a single-state **second-order Markov**

model, leading ... search for similarities in the **amino acid sequence** of two ...

Cited by 77 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[GeneWise and Genomewise - group of 10 »](#)

E Birney, M Clamp, R Durbin - 2004 - genome.org

... equivalent in some sense to a **second-order Markov** chain ... there was no obvious explanation

of the **pattern**; perhaps clone ... placed by Gene-Wise in the DNA **sequence**. ...

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[Analysis of genomic sequences by Chaos Game Representation - group](#)

of 4 »

JS Almeida, JA Carriço, A Maretzek, PA Noble, M ... - Bioinformatics, 2001 - bioinformatics.oupjournals.org

... of succession of alternative **patterns** of nucleotide ... of 4 bits, the corresponding **sequence** will be ... probability matrix for the **second-order Markov** Chain model ...

Cited by 36 - Related Articles - Web Search - BL Direct

Markov chain analysis finds a significant influence of neighboring bases on the occurrence of a base ... - group of 3 »

BE Blaisdell - Journal of Molecular Evolution, 1985 - Springer

... the sequences required at least **second-order Markov** chains for ... differences in base

and (if coding) **amino acid sequence**. ... bacterial DNAs but the **patterns** of the ...

Cited by 16 - Related Articles - Web Search

Statistical Analysis of Deoxyribonucleic Acid **Sequence** Data--A Review - group of 2 »

RN Curnow, TBL Kirkwood - Journal of the Royal Statistical Society. Series A (...), 1989 - JSTOR

... constrained if first-order and **second-order Markov** chains are ... problem is to find unknown **patterns** that occur ... When the **amino acid sequence** of the protein is known ...

Cited by 9 - Related Articles - Web Search

Statistical Methods for DNA **Sequence** Segmentation - group of 6 »

JV Braun, HG Muller - Statistical Science, 1998 - projecteuclid.org

... units, noting that chromosome banding **patterns** appear to ... Table 2 Some statistical alphabets for **amino acid** sequences ... length of time that the **sequence** of bases ...

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Chapter 4 An Introduction to Hidden Markov Models for Biological Sequences
- group of 31 »

A Krogh - Computational Methods in Molecular Biology, 1998 - cs.columbia.edu
... For finding **patterns** in **DNA**, eg splice sites ... A **hidden Markov model** (HMM) is a statistical model, which is very well suited for many tasks in molecular biology ...
Cited by 64 - Related Articles - View as HTML - Web Search - BL Direct

Prediction of complete gene structures in human genomic DNA - group of 72
»

C Burge, S Karlin - J. Mol. Biol, 1997 - bioservers.org
... overall architecture to the Generalized **Hidden Markov Model** approach adopted ... in anon-ymous genomic **DNA** sequences will ... activity and splicing **patterns** of novel ...
Cited by 1444 - Related Articles - Web Search - BL Direct

[book] Hidden Markov and Other Models for Discrete-Valued Time Series

IL MacDonald, W Zucchini - 1997 - books.google.com
... intermediate in length, and the **pattern** of long ... is replaced by a **second-order** Markov chain ... discussed modifies the 'binomial-**hidden Markov**' model by assuming ...
Cited by 236 - Related Articles - Web Search - Library Search - BL Direct

Statistical Methods for DNA Sequence Segmentation - group of 6 »

JV Braun, HG Muller - Statistical Science, 1998 - projecteuclid.org
... units, noting that chromosome banding **patterns** appear to ... to model segmentation of **DNA** sequences ... The **hidden Markov model** assumes that the different segments ...
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Structure Learning in Conditional Probability Models via an Entropic Prior and Parameter Extinction - group of 15 »

M Brand - 1999 - neco.mitpress.org
... When applied to **hidden Markov model** training, the resulting models show superior generalization ... **Patterns** in large samples are likely to be significant, but in ...
Cited by 56 - Related Articles - Web Search - BL Direct

Recognition of human genes by stochastic parsing - group of 2 »

K Asai, K Itou, Y Ueno, T Yada - Pacific Symposium on Biocomputing, 1998 - helix-web.stanford.edu
... is a first order Markov model (not **hidden Markov model**) of codons ... dif-ferent states for all **second order** contexts of ... The **pattern** of the branch point model was ...
Cited by 13 - Related Articles - View as HTML - Web Search

Finding prokaryotic genes by the 'frame-by-frame' algorithm: targeting gene starts and ... - group of 5 »

AM Shmatkov, AA Melikyan, FL Chernousko, M ... - Bioinformatics, 1999 - bioinformatics.oupjournals.org
... through the states of the **Hidden Markov Model** (HMM), related ... is generated by reading a **DNA** sequence in ... states to model triplet frequency **patterns** specific for ...
Cited by 20 - Related Articles - Web Search

A comparison of hidden Markov model features for the recognition of cursive handwriting - group of 2 »

S Connell - 1996 - citeseer.ist.psu.edu

... context) - Gray - 1990 124 **Pattern Recognition Principles ... of Handwritten Word: First and Second Order Hidd..** ... Postl - 1986 15 **Hidden Markov Model Based Optical ...**

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Gene finding: putting the parts together - group of 8 »

A Krogh - Guide to Human Genome Computing, 1998 - bioinfo.cs.umn.edu

... A **second order** chain spans a full codon, and usually ... marked with their consen- sus **pattern** (GT for ... automaton is es- sentially a **hidden Markov model** (HMM), and ...

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Gene discovery in DNA sequences - group of 5 »

SL Salzberg - Intelligent Systems and Their Applications, IEEE [see also ..., 1999 -
ieeexplore.ieee.org

... ADVANCES IN BIOTECHNOLOGY HAVE PRODUCED ENORMOUS VOLUMES OF **DNA**
-RELATED INFORMATION,

BUT THE RATE OF DATA GENERATION IS OUTPACThJG SCIENTISTS' ABILITY TO ...

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